

PENDING CLAIMS AS AMENDED

Please amend the claims as follows:

Claims 1-14 (Cancelled)

15. (Previously Presented) A wireless communication system, comprising:
a plurality of terminals including a first terminal in an idle state during which an RF receiver is off;
a first origination station that communicates a signal comprising first regular page message over a first regular paging channel and a first quick paging channel page message over a first quick paging channel; and
a second origination station that communicates a signal comprising second regular page message over a second regular paging channel and a second quick paging channel page message over a second quick paging channel;
wherein the first terminal simultaneously monitors both the first quick paging channel for the first quick paging channel page message and the second quick paging channel for the second quick paging channel page message.

16. (Previously Presented) A wireless communication system according to claim 15, wherein the terminal activates the RF receiver at predetermined times during which the terminal can potentially receive a quick paging channel page message and records at least a segment of the signal.

17. (Previously Presented) A wireless communication system according to claim 16, wherein the terminal processes the signal to determine the existence of quick paging channel pages from the origination stations from which the signals are greater than or equal to a threshold.

18. (Currently Amended) A wireless communication system according to claim 17, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal chooses the paging channel to monitor from the origination station having the signal with the strongest signal-to-noise and interference ratio among all the origination stations for which a QCPH quick paging channel page message was detected.

19. (Currently Amended) A wireless communication system according to claim 17, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal chooses the paging channel to monitor based on a pre-selected pre-arranged priority order among the origination stations.

20. (Previously Presented) A wireless communication system according to claim 17, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal monitors all of the paging channels for their regular page messages by recording the signals for a period during which a regular page would exist, and processing the signals to receive the possible page on different paging channels.

21. (Currently Amended) A wireless communication system according to claim 20, wherein when the terminal serially processes the signals to receive the possible page on different paging channels.

22. (Currently Amended) A wireless communication system according to claim 20, ~~when the terminal processes the signals in parallel to receive the possible page on different paging channels wherein the respective quick paging channel messages are transmitted at substantially the same time from each of the origination stations.~~

23. (Previously Presented) A wireless communication system according to claim 17, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal monitors a subset of the paging channels for their regular page messages by recording the signals for a period during which an regular page would exist, and processing the signals to receive the possible page on different paging channels.

24. (Currently Amended) A wireless communication system according to claim 23, wherein when the terminal serially processes the signals to receive the possible page on different paging channels.

25. (Currently Amended) A wireless communication system according to claim 23, when the terminal processes the signals in parallel to receive the possible page on different paging channels wherein the respective quick paging channel messages are transmitted at substantially the same time from each of the origination stations.

26-27. (Cancelled)

28. (Previously Presented) A wireless communication system according to claim 17, wherein the origination stations synchronize quick paging channel pages and wherein the terminal soft combines the quick paging channel pages from the origination stations to enhance detection, and

wherein there is a delay between regular pages, and once the RF receiver is activated, the terminal detects the regular paging channels individually, and if the regular paging channels can not be received individually, the terminal soft combines the regular paging channels.

29. (Currently Amended) A wireless communication system, comprising:
a plurality of terminals including a first terminal in an idle state during which an RF receiver is off;

a first origination station that communicates a signal comprising first regular page message over a first regular paging channel and a first quick paging channel page message over a first quick paging channel; and

a second origination station that communicates a signal comprising second regular page message over a second regular paging channel and a second quick paging channel page message over a second quick paging channel, wherein the first and second origination stations synchronize first and second quick paging channel pages and there is a delay between regular pages;

wherein the first terminal processes the signal to determine the existence of quick paging channel pages from the origination stations from which the signals are greater than or equal to a threshold, and simultaneously monitors both the first quick paging channel for the first quick paging channel page message and the second quick paging channel for the second quick paging channel page message, and soft combines the quick paging channel messages from the first and second origination stations to enhance detection, and

once the RF receiver is activated, the terminal detects the regular paging channels individually, and if the regular paging channels can not be received individually, the terminal soft combines the regular paging channels~~A wireless communication system according to claim 28, wherein soft combining of the regular paging channels is done~~ with multiple hypothesis based on the relative delay between the regular paging channels.

30. (Previously Presented) A wireless communication system according to claim 17, wherein the terminal individually detects quick paging channel pages from each of the origination stations separately.

31. (Previously Presented) A wireless communication system according to claim 17, wherein the quick paging channel pages are not synchronized, and , wherein the terminal individually detects quick paging channel pages from each of the origination stations separately.

32. (Currently Amended) A wireless communication system according to claim 16, wherein the first origination station communicates the first quick paging channel carrying the quick paging channel page at a first position, and the second origination station communicates

over the second quick paging channel carrying the quick paging channel page at a second position, and wherein the first position and the second position are the same and do not depend upon identity of the origination stations.

33. (Currently Amended) A wireless communication system, comprising:
a plurality of origination stations that each communicate a signal comprising a regular page message over respective regular paging channels and a quick paging channel page message over respective quick paging channels; and
a terminal that, when in an idle state during which an RF receiver is off, simultaneously monitors each of the quick paging channels for their respective quick paging channel page messages.

34. (Previously Presented) A wireless communication system according to claim 33, wherein the terminal activates the RF receiver at predetermined times during which the terminal can potentially receive a quick paging channel page message and records at least a segment of the signal from the origination station.

35. (Previously Presented) A wireless communication system according to claim 34, wherein the terminal processes the signal to determine the existence of quick paging channel pages from the origination stations from which the signals are greater than or equal to a threshold.

36. (Currently Amended) A wireless communication system according to claim 35, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal chooses the paging channel to monitor from the origination station having the signal with the strongest signal-to-noise and interference ratio among all the origination stations for which a QCPH quick paging channel page message was detected.

37. (Currently Amended) A wireless communication system according to claim 35, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal chooses the paging channel to monitor based on a pre-selected pre-arranged priority order among the origination stations.

38. (Previously Presented) A wireless communication system according to claim 35, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal monitors all of the paging channels for their regular page messages by recording the signals for a period during which an regular page would exist, and processing the signals to receive the possible page on different paging channels.

39. (Currently Amended) A wireless communication system according to claim 38, wherein when the terminal serially processes the signals to receive the possible page on different paging channels.

40. (Currently Amended) A wireless communication system according to claim 38, when the terminal processes the signals in parallel to receive the possible page on different paging channels wherein the respective quick paging channel messages are transmitted at substantially the same time from each of the origination stations.

41. (Previously Presented) A wireless communication system according to claim 35, when the terminal determines the existence of quick paging channel pages from both the origination stations and the signals are greater than or equal to a threshold,

the terminal monitors a subset of the paging channels for their regular page messages by recording the signals for a period during which an regular page would exist, and processing the signals to receive the possible page on different paging channels.

42. (Currently Amended) A wireless communication system according to claim 41, wherein when the terminal serially processes the signals to receive the possible page on different paging channels.

43. (Currently Amended) A wireless communication system according to claim 41, ~~when the terminal processes the signals in parallel to receive the possible page on different paging channels wherein the respective quick paging channel messages are transmitted at substantially the same time from each of the origination stations.~~

44-45. (Cancelled)

46. (Previously Presented) A wireless communication system according to claim 35, wherein the origination stations synchronize quick paging channel pages and wherein the terminal soft combines the quick paging channel pages from the origination stations to enhance detection, and

wherein there is a delay between regular pages, and once the RF receiver is activated, the terminal detects the regular paging channels individually, and if the regular paging channels can not be received individually, the terminal soft combines the regular paging channels.

47. (Currently Amended) A wireless communication system, comprising: a plurality of origination stations that each communicate a regular page message over respective regular paging channels and a quick paging channel page message over respective quick paging channels, wherein the origination stations synchronize quick paging channel messages and there is a delay between regular pages; and a terminal that, when in an idle state during which an RF receiver is off, simultaneously monitors each of the quick paging channels for their respective quick paging channel page messages according to claim 46, by activating the RF receiver at predetermined times during which the terminal can potentially receive a quick paging channel page message and records at least a segment of the signal from the origination station, and processing the signal to determine

the existence of quick paging channel pages from the origination stations from which the signals are greater than or equal to a threshold,

wherein the terminal soft combines the quick paging channel pages from the origination stations to enhance detection, and

once the RF receiver is activated, the terminal detects the regular paging channels individually, and if the regular paging channels can not be received individually, the terminal soft combines the regular paging channels wherein soft combining of the regular paging channels is done with multiple hypothesis based on the relative delay between the regular paging channels.

48. (Previously Presented) A wireless communication system according to claim 35, wherein the terminal individually detects quick paging channel pages from each of the origination stations separately.

49. (Currently Amended) A wireless communication system according to claim 35, wherein the quick paging channel pages are not synchronized, and, ~~wherein~~ the terminal individually detects quick paging channel pages from each of the origination stations separately.

50. (Currently Amended) A wireless communication system, comprising:
a plurality of terminals including a first terminal in an idle state during which an RF receiver is off;
a first origination station that communicates a signal comprising first regular page message over a first regular paging channel and a first quick paging channel page message over a first quick paging channel;

a second origination station that communicates a signal comprising second regular page message over a second regular paging channel and a second quick paging channel page message over a second quick paging channel; and

a third origination station that communicates a signal comprising third regular page message over a third regular paging channel and a third quick paging channel page message over a third quick paging channel; and

wherein the first terminal simultaneously monitors the first quick paging channel the first quick paging channel page message, the second quick paging channel for the second quick paging channel page message, and the third quick paging channel for the third quick paging channel page message.